



HNC Robotics

Robotic & Automation Systems Integration for the UK

HNC continues to support its long standing and new customers by providing a comprehensive service in all aspects of Machine Tools and Automated Manufacturing Systems Engineering.

Experience

As part of a long history of expertise in the design, manufacture, retrofit, and servicing of machine tools, customers increasingly asked for assistance in the design of complete or partial automated manufacturing lines and systems to augment their machine tools.

The HNC in-house team includes mechanical design engineers, electrical design engineers and software programmers. With thirty-five years experience working on Fanuc control systems, HNC are accredited experts in CNC programming and control. In scenarios where more diverse complex specialist software is required, the team is enhanced with some of the very best freelance specialists in C++ and Visual Basic etc, and in passing and storing data between database systems

Affiliations with CNC and Robotic System Manufacturers gives immediate additional access to an unmatched resource of advanced expertise. Working together as a team on many projects over many years, HNC have proven track record of delivering solutions based on high quality engineering and the HNC no-nonsense approach.

The primary goal of any robotic integration is to improve precision, productivity and profitability while providing a safe work environment for employees. HNC provide manufacturer **independent** advice and expertise. As Managing Director, Mike Diskin explains

"We explore your requirements from ROI to floor space restrictions; we'll sort through the automation needs and provide the best integrated solution to correspond to your budget, volume requirements, and life of the program."

Robotics and Cobotics

HNC's innovation is to build the best robotic solutions using proven industry-standard equipment with existing (used) industrial robots or the latest technologies and techniques from world leading manufacturers. HNC Integrated Automation combines programming and operation of plant, collaborative and traditional industrial robots and data systems.

Advanced Automated Manufacturing

The HNC turnkey solution includes setting up of the robot, programming of the trajectories and collaborations, integrating with management and data systems and commissioning of a complete solution. HNC behind-the-scenes **engineering** works across the entire project lifecycle, from conceptual engineering to installation and commissioning.

Our fundamental business strategy is building long-term client relationships. We have always attracted and retained clients by providing superior customer value. It is HNC's quality of engineering, a no-nonsense approach and our focus on fully supporting our products which creates the winning formula.

For more information or no obligation advice on Integrated Automation from HNC Robotics, Please contact Managing Director, Mike Diskin +44 (0) 1422 360607 mike.d@hnc.ltd.uk

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CASE STUDIES (SAMPLE)

CHARPY TEST CELL AT BRITISH STEEL SCUNTHORPE

This was a very complex automation process, using a Fanuc automation control system to control a pick and place and interface to three Fanuc controlled lathes. The cell was interfaced with the main factory computer through a bespoke HNC software package.

The operator placed a barcode label on the part and loaded it into the cell. The barcode was read and the dimensional information pulled down from the main computer.

The part was automatically measured and checked against this information. If it passed it was then sent to the next available machine. If it failed the check the part was rejected. The serial number of the part was then sent to the lathe, where it was engraved onto the part after machining.



GKN DRIVELINE BIRMINGHAM

The brief was to supply a solution to enable a Hardinge VMC 600 milling centre to machine a tag slot in ten sizes of CV joints with a version for a cotter pin. The requirement of the brief was to deliver the part conveyor-to-conveyor in a 15 second cycle.

An ABB 6-axis robot was integrated with the CNC machine to facilitate the loading and unloading of the part from a bespoke 4 positioned indexing table.

ROBOTIC & ADVANCED MANUFACTURING:

Research & Development
Project Management
Automation System Design
Diagnostics
Systems Integration
Electrical & Electronics Engineering
Robotics & PLC Engineering

Bespoke Software Applications
High-Level Programming (Coding)
IT Installation
Commissioning and Start-Up
Documentation & Training
After Project Support
Maintenance Support

ABOUT HNC ROBOTICS:

HNC work across the CNC automation, controls and robotics industry in various sectors such as: automotive, oil & gas, medical, pharmaceutical, FMCG and manufacturing. HNC's team of engineers work closely with our clients to provide a complete solution which is tailored to the client's budget and requirements.

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